

Title (en)  
INJECTOR FOR FLOTATION CELL

Title (de)  
INJEKTOR FÜR FLOTATIONSZELLE

Title (fr)  
INJECTEUR POUR CELLULE DE FLOTTATION

Publication  
**EP 2129828 A4 20130731 (EN)**

Application  
**EP 08736812 A 20080403**

Priority  
• FI 2008050163 W 20080403  
• FI 20075237 A 20070405

Abstract (en)  
[origin: WO2008122692A1] An injector (2) for a flotation cell (1), comprising a feed channel (3) for feeding a fibre suspension flow to the flotation cell (1), a flow distribution element (6) for distributing the fibre suspension flow fed to the injector (2) into partial flows, a mixing apparatus (9) for mixing air with a fibre suspension, and at least one 5 air input point (11) for sucking air to be mixed with the fibre suspension into the injector (2). The feed channel (3), the flow distribution element (6) and the mix- ing apparatus (9) are in the injector (2) arranged with respect to one another such that a flow direction of the fibre suspension flow in the feed channel (3) is substantially opposite to the flow direction of the fibre suspension flow through 10 the flow distribution element (6) and the mixing apparatus (9).

IPC 8 full level  
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CPC (source: EP FI US)  
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**D21B 1/00** (2013.01 - FI); **D21B 1/32** (2013.01 - FI); **D21B 1/327** (2013.01 - EP US); **D21C 5/02** (2013.01 - FI); **Y02W 30/64** (2015.05 - EP US)

Citation (search report)  
• [AD] US 5465848 A 19951114 - VEH GERHARD [DE], et al  
• [A] WO 2006134235 A1 20061221 - METSO PAPER INC [FI], et al  
• [A] EP 1591583 A1 20051102 - VOITH PAPER PATENT GMBH [DE]  
• See references of WO 2008122692A1

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Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**WO 2008122692 A1 20081016**; CN 101657582 A 20100224; CN 101657582 B 20120530; EP 2129828 A1 20091209; EP 2129828 A4 20130731;  
EP 2129828 B1 20140903; FI 119598 B 20090115; FI 20075237 A0 20070405; FI 20075237 A 20081006; US 2010108614 A1 20100506;  
US 8177071 B2 20120515

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